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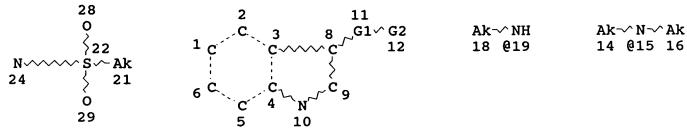
HIGHEST RN 158930-02-0 STRUCTURE FILE UPDATES: 12 NOV 94 DICTIONARY FILE UPDATES: 14 NOV 94 HIGHEST RN 158930-02-0

TSCA INFORMATION NOW CURRENT THROUGH MAY 1994

STR

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=> => => d que 15 L3



REP G1=(1-4) C VAR G2=NH2/15/19 NODE ATTRIBUTES: IS R NSPEC AT CONNECT IS E1 RC AT CONNECT IS E1 RC AT 16 CONNECT IS E1 RC AT 18 DEFAULT MLEVEL IS ATOM DEFAULT ECLEVEL IS LIMITED

**GRAPH ATTRIBUTES:** 

RING(S) ARE ISOLATED OR EMBEDDED

NUMBER OF NODES IS 21

STEREO ATTRIBUTES: NONE

22 SEA FILE=REGISTRY SSS FUL L3

=> d 15 1-22 ide can

L5 ANSWER 1 OF 22 REGISTRY COPYRIGHT 1994 ACS

RN 157694-77-4 REGISTRY

Piperazine, 1-[[[3-(2-aminoethyl)-1H-indol-5-CN yl]oxy]methyl]sulfonyl]-4-(1-naphthalenyl)- (9CI) (CA INDEX NAME)

FS 3D CONCORD

MF C25 H28 N4 O3 S

COM CI

SR CA

LC STN Files: CA

# 1 REFERENCES IN FILE CA (1967 TO DATE)

## REFERENCE 1: P 121:179613

L5 ANSWER 2 OF 22 REGISTRY COPYRIGHT 1994 ACS

RN 157694-76-3 REGISTRY

CN Piperazine, 1-[[[[3-(2-aminoethyl)-1H-indol-5-yl]oxy]methyl]sulfonyl]-4-(1-naphthalenyl)-, hydrochloride (9CI) (CA INDEX NAME)

MF C25 H28 N4 O3 S . x Cl H

SR CA

LC STN Files: CA

CRN (157694-77-4)

#### •x HCl

## 1 REFERENCES IN FILE CA (1967 TO DATE)

## REFERENCE 1: P 121:179613

L5 ANSWER 3 OF 22 REGISTRY COPYRIGHT 1994 ACS

RN 154360-36-8 REGISTRY

CN Piperidinecarboxamide, 1-[[[3-[2-(dimethylamino)ethyl]-1H-indol-5-yl]methyl]sulfonyl]-N-methyl- (9CI) (CA INDEX NAME)

MF C20 H30 N4 O3 S

CI IDS

SR CA

LC STN Files: CA

DES 8:ID, RING (C5N1)

$$\begin{array}{c|c}
 & O \\
 & N \\
 & S \\
 & CH_2
\end{array}$$

$$\begin{array}{c}
 & H \\
 & N \\
 & CH_2 - CH_2 - NMe_2
\end{array}$$

# 1 REFERENCES IN FILE CA (1967 TO DATE)

#### REFERENCE 1: P 120:244669

L5 ANSWER 4 OF 22 REGISTRY COPYRIGHT 1994 ACS

RN 154360-35-7 REGISTRY

CN Piperidine, 1-[[[3-[2-(dimethylamino)ethyl]-1H-indol-5-yl]methyl]sulfonyl](phenylmethyl)-, monohydrochloride (9CI) (CA INDEX NAME)

MF C25 H33 N3 O2 S . Cl H

CI IDS

SR CA

LC STN Files: CA DES 8:ID,RING(C5N1)

$$\begin{array}{c|c}
 & O \\
 & N \\
 & S \\
 & CH_2 \\
 & O \\
 &$$

$$D1-CH_2-Ph$$

# ● HCl

## 1 REFERENCES IN FILE CA (1967 TO DATE)

### REFERENCE 1: P 120:244669

L5 ANSWER 5 OF 22 REGISTRY COPYRIGHT 1994 ACS

RN 154360-34-6 REGISTRY

CN Butanedioic acid, compd. with 1-[[[3-[2-(dimethylamino)ethyl]-1H-indol-5-yl]methyl]sulfonyl]methoxypiperidine (1:1) (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN Piperidine, 1-[[[3-[2-(dimethylamino)ethyl]-1H-indol-5-yl]methyl]sulfonyl]methoxy-, butanedioate (1:1) (9CI)

MF C19 H29 N3 O3 S . C4 H6 O4

SR CA

LC STN Files: CA

CM 1

CRN 154360-33-5

CMF C19 H29 N3 O3 S

CCI IDS

CDES 8:ID, RING(C5N1)

$$\begin{array}{c|c}
 & O \\
 & N \\
 & S \\
 & CH_2 \\
 & O \\
\end{array}$$

$$\begin{array}{c}
 & H \\
 & N \\
 & CH_2 \\
 & CH_2 \\
\end{array}$$

$$\begin{array}{c}
 & CH_2 \\
 & CH_2 \\
\end{array}$$

$$\begin{array}{c}
 & CH_2 \\
 & O \\
\end{array}$$

D1-0-Me

CM 2

CRN 110-15-6 CMF C4 H6 O4

 $HO_2C-CH_2-CH_2-CO_2H$ 

1 REFERENCES IN FILE CA (1967 TO DATE)

REFERENCE 1: P 120:244669

L5 ANSWER 6 OF 22 REGISTRY COPYRIGHT 1994 ACS

RN 154360-33-5 REGISTRY

CN Piperidine, 1-[[[3-[2-(dimethylamino)ethyl]-1H-indol-5-yl]methyl]sulfonyl]methoxy- (9CI) (CA INDEX NAME)

MF C19 H29 N3 O3 S

CI IDS, COM

SR CA

DES 8:ID, RING (C5N1)

D1-0-Me

L5 ANSWER 7 OF 22 REGISTRY COPYRIGHT 1994 ACS

RN 154323-59-8 REGISTRY

CN 1H-Indole-2-carboxylic acid, 3-[2-(dimethylamino)ethyl]-5-[(1-pyrrolidinylsulfonyl)methyl]- (9CI) (CA INDEX NAME)

FS 3D CONCORD

MF C18 H25 N3 O4 S

SR CA

LC STN Files: CA

$$\begin{array}{c|c} O & H & CO_2H \\ \hline N & S - CH_2 & CH_2 - CH_2 - NMe_2 \end{array}$$

# 1 REFERENCES IN FILE CA (1967 TO DATE)

#### REFERENCE 1: P 120:244669

L5 ANSWER 8 OF 22 REGISTRY COPYRIGHT 1994 ACS

RN 154323-58-7 REGISTRY

CN Piperidine, 1-[[[3-[2-(dimethylamino)ethyl]-1H-indol-5-

yl]methyl]sulfonyl]- (9CI) (CA INDEX NAME)

FS 3D CONCORD

MF C18 H27 N3 O2 S

CI COM

SR CA

LC STN Files: CA

$$\begin{array}{c|c}
 & O \\
 & N \\
 & S \\
 & CH_2 \\
 & CH_2 - CH_2 - NMe_2
\end{array}$$

## 1 REFERENCES IN FILE CA (1967 TO DATE)

REFERENCE 1: P 120:244669

L5 ANSWER 9 OF 22 REGISTRY COPYRIGHT 1994 ACS

RN 154323-57-6 REGISTRY

CN Pyrrolidine, 1-[[[3-[2-(dimethylamino)ethyl]-1H-indol-5-yl]methyl]sulfonyl]- (9CI) (CA INDEX NAME)

FS 3D CONCORD

MF C17 H25 N3 O2 S

CI COM

SR CA

LC STN Files: CA

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# 1 REFERENCES IN FILE CA (1967 TO DATE)

REFERENCE 1: P 120:244669

L5 ANSWER 10 OF 22 REGISTRY COPYRIGHT 1994 ACS

RN 154323-56-5 REGISTRY

CN 1-Piperazinecarboxylic acid, 4-[[[3-[2-(dimethylamino)ethyl]-1H-indol-5-yl]methyl]sulfonyl]-, ethyl ester (9CI) (CA INDEX NAME)

FS 3D CONCORD

MF C20 H30 N4 O4 S

SR CA

LC STN Files: CA

$$\begin{array}{c|c}
 & O \\
 & N \\
 & S \\
 & CH_2 \\
 & CH_2 \\
 & CH_2 - CH_2 - NMe_2
\end{array}$$

## 1 REFERENCES IN FILE CA (1967 TO DATE)

REFERENCE 1: P 120:244669

L5 ANSWER 11 OF 22 REGISTRY COPYRIGHT 1994 ACS

RN 154323-55-4 REGISTRY

CN Butanedioic acid, compd. with 1-[[[3-[2-(dimethylamino)ethyl]-1H-indol-5-yl]methyl]sulfonyl]-4,4-dimethylpiperidine (1:1) (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN Piperidine, 1-[[[3-[2-(dimethylamino)ethyl]-1H-indol-5-

yl]methyl]sulfonyl]-4,4-dimethyl-, butanedioate (1:1) (9CI)

MF C20 H31 N3 O2 S . C4 H6 O4

SR CA

LC STN Files: CA

CM 1

CRN 154323-54-3 CMF C20 H31 N3 O2 S

$$\begin{array}{c|c} \text{Me} & \text{O} & \text{H} \\ \text{N} & \text{S} & \text{CH}_2 & \text{CH}_2 - \text{CH}_2 - \text{NMe}_2 \\ \\ \text{O} & \text{CH}_2 - \text{CH}_2 - \text{NMe}_2 \\ \end{array}$$

CM 2

CRN 110-15-6 CMF C4 H6 O4

 $HO_2C-CH_2-CH_2-CO_2H$ 

1 REFERENCES IN FILE CA (1967 TO DATE)

REFERENCE 1: P 120:244669

L5 ANSWER 12 OF 22 REGISTRY COPYRIGHT 1994 ACS

RN 154323-54-3 REGISTRY

CN Piperidine, 1-[[[3-[2-(dimethylamino)ethyl]-1H-indol-5-yl]methyl]sulfonyl]-4,4-dimethyl- (9CI) (CA INDEX NAME)

FS 3D CONCORD

MF C20 H31 N3 O2 S

CI COM

SR CA

$$\begin{array}{c|c} \text{Me} & \text{O} & \text{H} \\ \text{N} & \text{S} & \text{CH}_2 & \text{CH}_2 - \text{CH}_2 - \text{NMe}_2 \\ \\ \text{O} & \text{CH}_2 - \text{CH}_2 - \text{NMe}_2 \\ \end{array}$$

L5 ANSWER 13 OF 22 REGISTRY COPYRIGHT 1994 ACS

RN 154323-53-2 REGISTRY

CN Butanedioic acid, compd. with 1-[[[3-[2-(dimethylamino)ethyl]-1H-

indol-5-yl]methyl]sulfonyl]-4-methylpiperidine (1:1) (9CI) (CA
INDEX NAME)

OTHER CA INDEX NAMES:

CN Piperidine, 1-[[[3-[2-(dimethylamino)ethyl]-1H-indol-5-yl]methyl]sulfonyl]-4-methyl-, butanedioate (1:1) (9CI)

MF C19 H29 N3 O2 S . C4 H6 O4

SR CA

LC STN Files: CA

CM 1

CRN 154323-52-1 CMF C19 H29 N3 O2 S

Me O 
$$\mathbb{S}$$
  $\mathbb{C}H_2$   $\mathbb{C}H_2$   $\mathbb{C}H_2 - \mathbb{C}H_2 - \mathbb{N}Me_2$ 

CM 2

CRN 110-15-6 CMF C4 H6 O4

 $HO_2C^-CH_2^-CH_2^-CO_2H$ 

1 REFERENCES IN FILE CA (1967 TO DATE)

REFERENCE 1: P 120:244669

L5 ANSWER 14 OF 22 REGISTRY COPYRIGHT 1994 ACS

RN 154323-52-1 REGISTRY

CN Piperidine, 1-[[[3-[2-(dimethylamino)ethyl]-1H-indol-5-yl]methyl]sulfonyl]-4-methyl- (9CI) (CA INDEX NAME)

FS 3D CONCORD

MF C19 H29 N3 O2 S

CI COM

SR CA

$$\begin{array}{c|c} \text{Me} & \text{O} & \text{H} \\ \text{N} & \text{S} & \text{CH}_2 & \text{CH}_2 - \text{CH}_2 - \text{NMe}_2 \\ \\ \text{O} & \text{CH}_2 - \text{CH}_2 - \text{NMe}_2 \\ \end{array}$$

RN 154323-51-0 REGISTRY

CN Morpholine, 4-[[[3-[2-(dimethylamino)ethyl]-1H-indol-5-

yl]methyl]sulfonyl]-, monohydrochloride (9CI) (CA INDEX NAME)

MF C17 H25 N3 O3 S . Cl H

SR CA

LC STN Files: CA

$$\begin{array}{c|c}
 & O \\
 & N \\
 & S \\
 & CH_2 \\
 & CH_2 - CH_2 - NMe_2
\end{array}$$

### • HCl

## 1 REFERENCES IN FILE CA (1967 TO DATE)

REFERENCE 1: P 120:244669

L5 ANSWER 16 OF 22 REGISTRY COPYRIGHT 1994 ACS

RN 154323-50-9 REGISTRY

CN Pyrrolidine, 1-[[[3-[2-(methylamino)ethyl]-1H-indol-5-

yl]methyl]sulfonyl]-, monohydrochloride (9CI) (CA INDEX NAME)

MF C16 H23 N3 O2 S . Cl H

SR CA

LC STN Files: CA

$$\begin{array}{c|c}
O & H \\
N - S - CH_2 - CH_2 - NHMe
\end{array}$$

$$CH_2 - CH_2 - NHMe$$

#### HCl

## 1 REFERENCES IN FILE CA (1967 TO DATE)

REFERENCE 1: P 120:244669

L5 ANSWER 17 OF 22 REGISTRY COPYRIGHT 1994 ACS

RN 154323-49-6 REGISTRY

CN Butanedioic acid, compd. with 1-[[[3-[2-(dimethylamino)ethyl]-1H-indol-5-yl]methyl]sulfonyl]hexahydro-1H-azepine (1:1) (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

Page 10

1H-Azepine, 1-[[[3-[2-(dimethylamino)ethyl]-1H-indol-5-CN yl]methyl]sulfonyl]hexahydro-, butanedioate (1:1) (9CI)

MF C19 H29 N3 O2 S . C4 H6 O4

SR CA

STN Files: LC CA

> CM 1

CRN 154323-48-5 CMF C19 H29 N3 O2 S

$$\begin{array}{c|c}
 & O \\
 & N \\
 & S \\
 & CH_2
\end{array}$$

$$\begin{array}{c}
 & H \\
 & N \\
 & CH_2 - CH_2 - NMe_2
\end{array}$$

CM 2

CRN 110-15-6 **CMF** C4 H6 O4

 $HO_2C-CH_2-CH_2-CO_2H$ 

1 REFERENCES IN FILE CA (1967 TO DATE)

REFERENCE 120:244669 1: P

L5 ANSWER 18 OF 22 REGISTRY COPYRIGHT 1994 ACS

RN 154323-48-5 REGISTRY

1H-Azepine, 1-[[[3-[2-(dimethylamino)ethyl]-1H-indol-5-CN yl]methyl]sulfonyl]hexahydro- (9CI) (CA INDEX NAME)

FS 3D CONCORD

MF C19 H29 N3 O2 S

CI COM

SR CA

$$\begin{array}{c|c}
 & O \\
 & N \\
 & S \\
 & CH_2
\end{array}$$

$$\begin{array}{c}
 & H \\
 & N \\
 & CH_2 \\
 & CH_2 \\
 & CH_2 \\
 & O \\
\end{array}$$

$$\begin{array}{c}
 & CH_2 \\
 & CH_2 \\
 & O \\
\end{array}$$

- L5 ANSWER 19 OF 22 REGISTRY COPYRIGHT 1994 ACS
- RN 154323-47-4 REGISTRY
- CN Piperidine, 1-[[[3-[2-(dimethylamino)ethyl]-1H-indol-5yl]methyl]sulfonyl]-, monohydrochloride (9CI) (CA INDEX NAME)

MF C18 H27 N3 O2 S . Cl H

SR CA

LC STN Files: CA

CRN (154323-58-7)

$$\begin{array}{c|c} & & & \\ & & \\ & & \\ N & & \\ S & CH_2 & \\ & & \\ CH_2 - CH_2 - NMe_2 & \\ \end{array}$$

## HCl

# 1 REFERENCES IN FILE CA (1967 TO DATE)

REFERENCE 1: P 120:244669

L5 ANSWER 20 OF 22 REGISTRY COPYRIGHT 1994 ACS

RN 154323-46-3 REGISTRY

CN Pyrrolidine, 1-[[[3-[2-(dimethylamino)ethyl]-1H-indol-5-

yl]methyl]sulfonyl]-, monohydrochloride (9CI) (CA INDEX NAME)

MF C17 H25 N3 O2 S . C1 H

SR CA

LC STN Files: CA

CRN (154323-57-6)

$$\begin{array}{c|c}
 & & & H \\
 & & & N \\
 & & & S \\
 & & & CH_2 \\
 & & & & CH_2 - CH_2 - NMe_2
\end{array}$$

#### HCl

# 1 REFERENCES IN FILE CA (1967 TO DATE)

REFERENCE 1: P 120:244669

L5 ANSWER 21 OF 22 REGISTRY COPYRIGHT 1994 ACS

RN 137404-32-1 REGISTRY

CN Piperazine, 1-[5-[[3-[2-(dimethylamino)ethyl]-1H-indol-5-yl]methyl]-1,2,4-oxadiazol-3-yl]-4-(methylsulfonyl)-, ethanedioate (1:1) (9CI) (CA INDEX NAME)

MF C20 H28 N6 O3 S . C2 H2 O4

SR CA

STN Files: LC CA

> CM 1

CRN 137404-31-0 CMF C20 H28 N6 O3 S

CM 2

CRN 144-62-7 CMF C2 H2 O4

# 1 REFERENCES IN FILE CA (1967 TO DATE)

REFERENCE 116:83677 1: P

L5 ANSWER 22 OF 22 REGISTRY COPYRIGHT 1994 ACS

RN 137404-31-0 REGISTRY

Piperazine, 1-[5-[[3-[2-(dimethylamino)ethyl]-1H-indol-5-yl]methyl]-CN 1,2,4-oxadiazol-3-yl]-4-(methylsulfonyl)- (9CI) (CA INDEX NAME)

FS 3D CONCORD

MF C20 H28 N6 O3 S

CI COM

SR CA

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L2
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     FILE 'CA' ENTERED AT 08:44:57 ON 15 NOV 94
              3 S L5
L6
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     FILE 'CA' ENTERED AT 08:47:34 ON 15 NOV 94
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     ANSWER 1 OF 3 CA COPYRIGHT 1994 ACS
L6
AN
     121:179613 CA
     Preparation of 5-[(piperazinocarbonyl)methoxy]tryptamines and
TI
     analogs as 5-HT receptor ligands
IN
     Halazy, Serge; Perez, Michel; Briley, Michael
PA
     Pierre Fabre Medicament, Fr.
SO
     Fr. Demande, 53 pp.
     CODEN: FRXXBL
     FR 2699918 A1 940701 LATE
PI
ΑI
     FR 92-15919 921230
DТ
     Patent
LA
     French
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os

GI

MARPAT 121:179613

II

$$R^{1}N$$
 $R$ 
 $R^{2}$ 
 $R^{3}$ 
 $R^{3}$ 

Title compds [I; R = H, alkyl, Ph; R1 = H, (cyclo)alkyl, Ph, CH2Ph, AB naphthyl, etc.; R2 = H, (cyclo)alkyl, Ph, CH2Ph, pyrrolyl, pyridyl, etc.; R3,R5 = H, alkyl, CH2Ph, CH2CH2Ph; R4 = H, Cl, F, Br, alkyl; R6 = H, alkyl, COR7, CO2R7, CONHR7; R7 = alkyl, (un)substituted Ph; Z = CO, SO2, (CH2)1-5] were prepd. Thus, N-(1-naphthyl) piperazine was condensed with ClCH2COCl and the product condensed with N-BOC-5-hydroxytryptamine to give, after deprotection, title compd. II which had IC50 of 115x10-9M and 3.2x10-9M against 5-HT binding at 5-HT1A and 5-HT1D receptors of sheep caudate nucleus prepn. in vitro, resp.

IT 157694-76-3P 157694-77-4P

(prepn. of, as 5-HT receptor ligand)

- L6 ANSWER 2 OF 3 CA COPYRIGHT 1994 ACS
- AN 120:244669 CA
- TI Preparation of [3-(2-aminoethyl)-5-indolyl]methanesulfonamides as antimigraine agents
- Fernandez Forner, Dolors; Puig Duran, Carles; Prieto Soto, Jose; IN APP'S PCT Vega Noverola, Armando; Moragues Mauri, Jacinto
- PA Laboratorios Almirall S.A., Spain
- SO PCT Int. Appl., 21 pp. CODEN: PIXXD2

PI WO 9402460 A1 940203

- DS AT, AU, BB, BG, BR, BY, CA, CH, CZ, DE, DK, FI, GB, HU, JP, KP, KR, KZ, LK, LU, MG, MN, MW, NL, NO, NZ, PL, PT, RO, RU, SD, SE, SK, UA, US, VN
  - RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, DE, DK, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG
- ΑI WO 93-EP1901 930719
- PRAI GB 92-16009 920728
- DTPatent
- LA English
- os MARPAT 120:244669

Ι

AB Title compds. (I; R = CH2SO2Z) [II; R1,R2 = H, alky1; R3 = H; Z =morpholino, (substituted)piperidino, pyrrolidino, 4-(alkoxycarbonyl)piperazino, etc.] were prepd. Thus, II (R1 = R2 =Me, Z = pyrrolidino)(III; R3 = CO2H) was decarboxylated to give III (R3 = H) which had IC50 of 10.4 and 460nM against ligand binding at 5-HT1D and 5-HT1A receptors in vitro, resp.

IT 154323-46-3P 154323-47-4P 154323-49-6P 154323-50-9P 154323-51-0P 154323-53-2P 154323-55-4P 154323-56-5P 154323-57-6P 154323-58-7P 154360-34-6P 154360-35-7P 154360-36-8P

(prepn. of, as antimigraine agent)

IT 154323-59-8

(reaction of, in prepn. of antimigraine agent)

L6 ANSWER 3 OF 3 CA COPYRIGHT 1994 ACS

AN 116:83677 CA

Preparation of substituted (1,2,4-oxadiazolylindolyl)ethylamine and TI analogs as agonists of 5-HT1-like receptors

Baker, Raymond; Reeve, Austin J.; Street, Leslie J. IN

PA Merck Sharp and Dohme Ltd., UK

SO Eur. Pat. Appl., 58 pp. CODEN: EPXXDW

PΙ EP 438230 A2 910724

DS AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE

AI EP 91-300180 910110

PRAI GB 90-1018 900117 GB 90-8587 900417

DT Patent LA English

OS MARPAT 116:83677

GI

PhCH<sub>2</sub> N 
$$CH_2CH_2NH_2$$
 $N - O$ 
 $N$ 

AB Title compds. I [wherein the broken circle represents 2 non-adjacent double bonds in any position; W, X, Y, Z = O, S, N, C, such that 1 of W, X, Y, Z = O, S and at least 1 of W, X, Y, Z = C; A = H, hydrocarbyl, halo, NC, F3C, O2N, etc.; E = bond, C1-4 alkylene, F =

211446

(substituted) heterocyclyl] or a salt or prodrug thereof, are prepd. NaNO2 was added to 4-(H2N)C6H4CO2Et in concd. HCl, the mixt. stirred at 0.degree. before adding SnCl2.2H2O in HCl to give 4-(H2NNH)C6H4CO2Et.HCl (II). II and 4-ClCH2(CH2)2CH(OMe)2 in EtOH/H2O were refluxed, the solvent removed and the residue chromatographed to give 2-(5-5-carbethoxy-1H-indol-3-yl)ethylamine.H maleate (III). NaH was added to phenylacetamide oxime in THF, the reaction mixt. refluxed, III was added and the whole refluxed for 2 h, the reaction mixt. cooled to room temp. to give the title compd. as the H.oxalate (IV). The activity as agonist of 5-HT1-like receptor was measured in terms of their ability to mediate contraction of the saphenous vein of rabbits, and the potency calcd. as -log10EC50 (pEC50). The pEC50 of IV was not less than 5.0. Tablet compns. comprising I are given.

IT 137404-32-1P

(prepn. of, as 5-HT1 agonists)

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FILE 'CAPREVIEWS'
L8 0 L5

TOTAL FOR ALL FILES L9 0 L5

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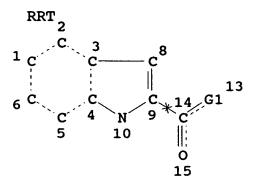
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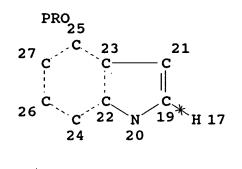
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- >>> searching were introduced. Enter HELP FGA or HELP FGC for more <<<
- >>> information. <<<

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L1 STR





VAR G1=OH/OME NODE ATTRIBUTES: DEFAULT MLEVEL IS ATOM DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES: RING(S) ARE ISOLATED OR EMBEDDED NUMBER OF NODES IS 22

STEREO ATTRIBUTES: NONE

#### \*\*\*\*MAPPINGS\*\*\*\*

NOD	SYM	$\mathtt{ROL}$	NOD	SYM	$\mathtt{ROL}$
9	С	RRT	19	С	PRO
10	N	RRT	20	N	PRO
19	С	PRO	9	С	RRT
20	N	PRO	10	N	RRT
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L3 29 SEA FILE=CASREACT SSS FUL L1 ( 73 REACTIONS)
L4 STR

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1 C C C C C 14 G1

6 C C C C 14 G1

5 10 0

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VAR G1=OH/OME NODE ATTRIBUTES: DEFAULT MLEVEL IS ATOM DEFAULT ECLEVEL IS LIMITED

**GRAPH ATTRIBUTES:** 

RSPEC I

NUMBER OF NODES IS

STEREO ATTRIBUTES: NONE

#### \*\*\*\*MAPPINGS\*\*\*

NOD	SYM	ROL	NOD	SYM	ROL					
9	С	RRT	19	С	PRO					
10	N	RRT	20	N	PRO					
19	С	PRO	9	C	RRT					
20	N	PRO	10	N	RRT					
1.5		17 SEA	FILI	E=CASREACT	SUB=1.3	SSS	FUL L4	(	40	REACTIONS)

=> d 15 1-17 fhit bib abs

ANSWER 1 OF 17 CASREACT COPYRIGHT 1994 ACS L5

RX(1) OF 2

A

В YIELD 80%

RX(1) RCT A 153654-26-3 PRO B 103628-46-2 CAT 1317-39-1 Cu20 SOL 91-22-5 Quinoline NTE N atm., evolution of CO2, 205.degree.

AN 120:191533 CASREACT

TI Process for the preparation of 3-[2-(dimethylamino)ethyl]-N-methyl-1H-indole-5-methanesulfonamide [sumatriptan]

IN Dalmases Barjoan, Pere; Marquillas Olondriz, Francisco; Bosch Rovira, Anna; Caldero Ges, Jose Maria

PA Inke, S.A., Spain

SO Span., 4 pp. CODEN: SPXXAD

PI ES 2033578 A1 930316

AI ES 91-1360 910606

DT Patent

LA Spanish

GI

The title compd. I (R = H) (II), useful for the treatment of migraine (no data), is prepd. by catalytic decarboxylation of the carboxylic acid I (R = CO2H) (III) in a solvent medium. Thus, heating of III with Cu2O in dry quinoline under N at 205.degree. for 30-40 min gave 80% II. Similar reaction using powd. Cu catalyst in a mixt. of quinoline and di-Ph ether over 1 h gave 69% II. II was also converted to its 1:1 succinate salt.

I

L5 ANSWER 2 OF 17 CASREACT COPYRIGHT 1994 ACS

$$RX(1)$$
 OF 5  $A ===> B$ 

RX(1) RCT A 1477-50-5 PRO B 120-72-9

SOL 91-22-5 Quinoline

NTE microwave

AN 119:180622 CASREACT

TI Decarboxylation of indole-2-carboxylic acids: improved procedures

AU Jones, Graham B.; Chapman, Brant J.

CS Dep. Chem., Clemson Univ., Clemson, SC, 29634-1905, USA

SO J. Org. Chem. (1993), 58(20), 5558-9

Page 4

CODEN: JOCEAH; ISSN: 0022-3263

DT Journal

English LA

os CJACS-IMAGE; CJACS

The microwave induced decarboxylation of a variety of AB indole-2-carboxylates has been studied and accomplished. yields for decarboxylation were obtained either by conducting the thermolyses in the absence of a solvent or in quinoline soln. Yields were comparable either in the absence of a catalyst or using a catalytic amt. of either copper powder or copper (I) chloride. The copper(II) salt of indole-2-carboxylic acid, which undergoes in situ redn. to the copper(I) species was also found to be effective. Near quant. yields of decarboxylated indoles were recovered following a 12 min microwave thermolysis at 600w using a com. oven. Both methoxy and fluoro substituted indoles are amenable to the process, which is conducted in a sealed tube for best results.

L5 ANSWER 3 OF 17 CASREACT COPYRIGHT 1994 ACS

RX(1) OF 1 2 A В

A Α

RCT A 37033-93-5 RX(1) PRO B 77132-99-1, C 68742-28-9 39320-55-3 K 16 (catalyst) CAT SOL 71-43-2 Benzene

AN 115:232027 CASREACT

The synthesis of 5-vinylindole by simultaneous dehydrogenation and TI decarboxylation of 5-ethylindole-2-carboxylic acid and its ethyl

Page 5

AU Starostenko, N. E.; Phung Tien Dat; Serova, I. A.; Kamenetskii, A. V.; Suvorov, N. N.

- CS Mosk. Khim.-Tekhnol. Inst., Moscow, 125047, USSR
- SO Khim. Geterotsikl. Soedin. (1991), (5), 638-41 CODEN: KGSSAQ; ISSN: 0453-8234
- DT Journal
- LA Russian
- AB A new method of prepn. of 5-vinylindole by catalytic dehydrogenation/decarboxylation of 5-ethylindolecarboxylic acid or its Et ester over a K-16 catalyst is presented.
- L5 ANSWER 4 OF 17 CASREACT COPYRIGHT 1994 ACS

RX(5) OF 15 ...M ===> O

O YIELD 28%

RX(5) RCT M 129450-58-4 PRO O 129431-59-0 NTE heat

AN 113:131932 CASREACT

TI Bisindoles. 28. Synthesis of 7,7'-dimethyl-5,5'-bis(1H-indole)

AU Zeghough, Djidel; Kadzhrishvili, D. O.; Samsoniya, Sh. A.; Suvorov, N. N.

CS Tbilisi. Gos. Univ., Tbilisi, 380028, USSR

SO Khim. Geterotsikl. Soedin. (1990), (3), 343-5 CODEN: KGSSAQ; ISSN: 0453-8234

DT Journal

LA Russian

Ι

Biindoledicarboxylate I (R = CO2Et) was prepd. in 11% yield by AB cyclization of Et pyruvate 3,3'-dimethyl-4,4'-biphenylenehydrazone with polyphosphoric acid. Subsequent sapon. and thermal decarboxylation gave 28% I (R = H).

ANSWER 5 OF 17 CASREACT COPYRIGHT 1994 ACS L5

RX(5) OF 21 ...0 ===>

RX(5) RCT 0 121217-70-7 PRO P 117908-10-8 thermal NTE

AN 111:23336 CASREACT

Indole derivatives. 133. Synthesis of 5-(2-pyridyl)indole TI

Akhvlediani, R. N.; Khachidze, M. M.; Eraksina, V. N.; Suvorov, N. AU

Mosk. Khim.-Tekhnol. Inst., Moscow, 125047, USSR CS

Khim. Geterotsikl. Soedin. (1988), (11), 1476-80 SO

CODEN: KGSSAQ; ISSN: 0453-8234

Journal DT

LA Russian

- Gomberg arylation of pyridine afforded 2-(4-nitrophenyl)pyridine, AB which was reduced with Fe shavings in aq. NH4Cl to give hydrazone I. Japp-Klingemann indolization of I, followed by sapon. and thermal decarboxylation afforded 5-(2-pyridyl)indole.
- ANSWER 6 OF 17 CASREACT COPYRIGHT 1994 ACS L5

$$RX(3)$$
 OF 10 ...  $F ===> J$ 

HO 
$$-C(0)$$
 H C1 H C(0)  $-OH$ 
 $CH_2$   $(3)$ 

YIELD 52%

RX(3) RCT F 120109-52-6 J 120109-53-7 PRO NTE Thermal

AN 110:173037 CASREACT

Bisindoles. 26. Synthesis of 7,7'-dichlorobis(5-indoly1)methane Zeghugh, Dzh.; Kadzhrishvili, D. O.; Samsoniya, Sh. A.; Suvorov, N. TI

AU N.; Kedelashvili, N. Z.

Tbilisi. Gos. Univ., Tbilisi, USSR CS

Khim. Geterotsikl. Soedin. (1988), (8), 1062-5 SO CODEN: KGSSAQ; ISSN: 0453-8234

Journal DT

LA Russian

$$\begin{bmatrix} \texttt{EtO}_2\texttt{CCMe} = \texttt{NNH} & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ \end{bmatrix}_2^{\texttt{CH}_2} \qquad \qquad \begin{bmatrix} \texttt{CH}_2 & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ \end{bmatrix}_2^{\texttt{CH}_2}$$

AB Diphenylenemethane dihydrazone I underwent polyphosphoric Et ester-promoted cyclization to bis(carbethoxyindole)methant II (R = CO2Et). The latter was sapond. and thermally decarboxylated to give title compd. II (R = H). I was obtained as a mixt. of syn-syn, syn-anti, and anti-anti isomers from the corresponding dianiline deriv. by diazotization and condensation with Et pyruvate.

L5 ANSWER 7 OF 17 CASREACT COPYRIGHT 1994 ACS

RX(31) OF 72 BY BZ

$$MeO$$
 $H$ 
 $C=O$ 
 $H_2C=CHCH_2N$ 
 $MeO$ 
 $H_2C=CHCH_2N$ 
 $MeSO_2$ 
 $MeSO_2$ 

RX(31) RCT BY 116911-59-2 CA 1317-39-1 Cu20 RGT PRO BZ 106994-17-6 127-19-5 AcNMe2 SOL NTE thermal

AN 109:190288 CASREACT

Synthesis of the left-hand ring of the antitumor antibiotic CC-1065 TI by an intramolecular carbenoid addition route. Synthesis and reactivity of 4-diazo-4,7-dihydroindol-7-ones and related compounds

Sundberg, Richard J.; Baxter, Ellen W.; Pitts, William J.; AU

Ahmed-Schofield, Ruquia; Nishiguchi, Takeshi

CS Dep. Chem., Univ. Virginia, Charlottesville, VA, 22901, USA

SO J. Org. Chem. (1988), 53(21), 5097-107 CODEN: JOCEAH; ISSN: 0022-3263

DT Journal

LA English

OS **CJACS** 

- \* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY AVAILABLE VIA OFFLINE PRINT \*
- Title compds. I (R = H, SO2Ph; R1 = SO2Me; Z = N2) were prepd. as AB potential precursors for the left-hand ring of antibiotic CC-1065 (II). Redn. and diazotization of (carbethoxyoxy) nitro (propenyl sulfo namide) indole III, prepd. in 7 steps from 3,4-(PhCH2O) (AcNH) C6H3NHSO2Me (IV) gave I (R = H; R1 = SO2Me; Z = N2). I (R = SO2Ph; R1 = SO2Me; Z = N2) was prepd. in 8 steps from IV analog a similar pathway. Photolysis, thermolysis, or transition metal-catalyzed decompn. of I (R1 = SO2Me, Z = N2) gave mixts. of cyclopropanes V (by intramol. carbenoid addn.) and quinones I (R1 = H, Z = 0) (by 0 transfer from the SO2 group).
- ANSWER 8 OF 17 CASREACT COPYRIGHT 1994 ACS L5

RX(1) OF 21 ...A ===> В

RX(1) RCT A 31529-28-9 PRO B 830-96-6 NTE Thermal

108:131499 CASREACT AN

- Syntheses starting from 2-cyanocyclopentanone. Application of TI arylhydrazones of 5-cyano-5-oxopentanoic acid to the preparation of indole derivatives
- AU Thi Anh Nga Trinh; Lamant, Maurice
- CS
- Lab. Chim. Org., CNRS, Nantes, 44072, Fr. Bull. Soc. Chim. Fr. (1987), (2), 361-4 SO

CODEN: BSCFAS; ISSN: 0037-8968

DTJournal

LA French

AB Fischer's cyclization of (E) - and (Z) -RC6H4NHN:C(CN)(CH2)3CO2H (I; R = H, p-Me, p-Cl, p-Br, p-MeO, p-EtO, o-MeO) with HCl in EtOH affords (carboxyindolyl)propanoic acids (II) after sapon. of the intermediate amides. Treatment of I (R = p-Me, p-Cl) with ZnCl2 in AcOH, however, gives azepino[3,4-b]indoles III. I (R = H) gives oxotetrahydrodiazepine IV upon treatment with polyphosphoric acid in AcOH.

L5 ANSWER 9 OF 17 CASREACT COPYRIGHT 1994 ACS

RX(3) OF 77 ...D ===> H...

$$CH_2CH_2-NH-H$$

$$H$$
 $N$ 
 $H$ 
 $CH_2CH_2-NH-H$ 

H YIELD 58%

RX(3) RCT D 74058-58-5 RGT I 7664-93-9 H2SO4 PRO H **3610-42-2** SOL 7732-18-5 Water

AN 108:75693 CASREACT

TI Synthesis of Vinca alkaloids and related compounds. XXXIV. Synthesis of (3S,14S,16S)-bromovincamines and bromoapovincamines by regioselective bromination

AU Szabo, Lajos; Dobay, Laszlo; Kalaus, Gyorgy; Gacs-Baitz, Eszter; Tamas, Jozsef; Szantay, Csaba

CS Dep. Org. Chem., Tech. Univ., Budapest, H-1521, Hung.

SO Arch. Pharm. (Weinheim, Ger.) (1987), 320(9), 781-9 CODEN: ARPMAS; ISSN: 0365-6233

Ι

DT Journal

LA English

GI

AB Bromination of the iminium salt I (R = H, X = Cl) gave the 9-bromo deriv. I (R = Br, X = ClO4). Bromination of the lactam II (R1 = H) leads to a .apprx.7.5:1 mixt. of II (R1 = 11-Br, 9-Br). These precursors have been used to synthesize 9-, 10- and 11-bromovincamines III and 9-, 10- and 11-bromoapovincamines IV.

L5 ANSWER 10 OF 17 CASREACT COPYRIGHT 1994 ACS

III

RX(42) OF 139 COMPOSED OF RX(5), RX(6), RX(8)

RX(42) O ===> X

PRO X 102357-90-4

CAT 13938-94-8 Rhodium, carbonylchlorobis(triphenylphosphine), 6737-42-4 1,3-DPPP

SOL 108-67-8 Mesitylene

AN 108:37451 CASREACT

TI Vinyl azides in heterocyclic synthesis. Part 8. Synthesis of the naturally occurring phosphodiesterase inhibitors PDE-I and PDE-II

AU Bolton, Richard E.; Moody, Christopher J.; Rees, Charles W.; Tojo, Gabriel

CS Dep. Chem., Imp. Coll. Sci. Technol., London, SW7 2AY, UK

SO J. Chem. Soc., Perkin Trans. 1 (1987), (4), 931-5 CODEN: JCPRB4; ISSN: 0300-922X

DT Journal

LA English

OS CJRSC

AB PDE-1 (I, R = NH2) and PDE-II (I, R = Me) were prepd. from isovanillin. The route involves the construction of both pyrrole rings by vinylnitrene cyclizations, the key cyclization substrates being the azidoacrylates 2,4,5-Br(MeO) (PhCH2O) C6H2CH: CN3CO2Me and II, prepd. from the aldehydes and N3CH2CO2Me. The same tricyclic intermediate is converted into both PDE-I and PDE-II by selective redn., followed by carbamoylation or acetylation resp., and deprotection.

L5 ANSWER 11 OF 17 CASREACT COPYRIGHT 1994 ACS

RX(1) OF 26 ... A ===> B

RX(1) RCT A 105776-11-2 RGT C 7664-93-9 H2SO4 PRO B 23659-87-2 SOL 64-17-5 EtOH

AN 106:18300 CASREACT

TI Synthesis of 4,6-dimethoxyindoles

AU Black, David S. C.; Kumar, Naresh; Wong, Laurence C. H.

CS Sch. Chem., Univ. New South Wales, Kensington, 2033, Australia

SO Aust. J. Chem. (1986), 39(1), 15-20

CODEN: AJCHAS; ISSN: 0004-9425

DT Journal

LA English

211446

AB Indoles I (R = H, R1 = H, Me, Ph; R = Me, R1 = H, Me; R = CO2Me, R1 = H, CO2Me; R = CO2H, R1 = H, CO2H, R = Ph, R1 = H, Ph; R = R1 = 2-pyridinyl) were prepd. by Bischler reaction followed by derivatization.

L5 ANSWER 12 OF 17 CASREACT COPYRIGHT 1994 ACS

RX(21) OF 36 ...AG ===> AL

RX(21) RCT AG 105399-10-8

PRO AL 703-80-0

CAT 12017-79-7 Chromium copper oxide (CrCuO2)

SOL 91-22-5 Quinoline

AN 105:226259 CASREACT

TI Synthetic studies on indoles and related compounds. XII. A simple general method for the C-3 acylation of ethyl indole-2-carboxylates

AU Murakami, Yasuoki; Tani, Masanobu; Suzuki, Michio; Sudoh, Keizo;

Uesato, Midori; Tanaka, Kenjiro; Yokoyama, Yuusaku

CS Sch. Pharm. Sci., Toho Univ., Funabashi, 274, Japan

SO Chem. Pharm. Bull. (1985), 33(11), 4707-16

CODEN: CPBTAL; ISSN: 0009-2363

DT Journal

LA English

- AB Et indole-2-carboxylate I (R = H, PhCH2; R1 = H, MeO, C1) were reacted with various carboxylic acids by using (CF3CO)20 and H3PO4 (or polyphosphoric acid) to yield effectively Et 3-acylindole-2-carboxylates II (R2 = e.g. Ac, Bz, Me3CCO, ClCH2CO; R3 = CO2Et). However, strongly acidic carboxylic acids and nitrogen-contg. carboxylic acids were poor acylating agents. Et 3-acylindole-2-carboxylates could easily be converted to 3-acylindoles.
- L5 ANSWER 13 OF 17 CASREACT COPYRIGHT 1994 ACS

$$RX(5)$$
 OF 45 ...M ===> Q...

Br H OH Br H 
$$C = 0$$

O CH(CH<sub>2</sub>) 4Me Me Me

Me

(5)

Q

- RX(5) RCT M 102651-64-9
  PRO Q 102651-65-0
  CAT 11104-65-7 Chromium copper oxide
  SOL 91-22-5 Quinoline
- AN 105:172225 CASREACT
- TI Synthesis and analgesic evaluation of 4-(2-heptyloxy)-7-[(Z)-(3-hydroxycyclohexyl)]indole: a caveat on indole-phenol bioisosterism
- AU Soll, Richard M.; Humber, Leslie G.; Deininger, David; Asselin, Andre A.; Chau, Thuy T.; Weichman, Barry M.
- CS Chem. Pharmacol. Dep., Ayerst Lab. Res., Inc., Princeton, NJ, 08540, USA
- SO J. Med. Chem. (1986), 29(8), 1457-60 CODEN: JMCMAR; ISSN: 0022-2623
- DT Journal
- LA English

OS CJACS GI

The indole I was prepd. as a bioisostere for the phenol II. I was obtained from 5,2-Br(HO)C6H3CHO via cyclization of 5,2-Br[Me(CH2)4CHMeO]C6H3CH:CN3CO2Me, decarboxylation of the resulting indole and reaction with cyclohexenone. In contrast, to II which had an ED50 of 8.3 mg/kg, s.c. I was inactive in the phenylbenzoquinone writhing test. The absence of bioisosterism between the pyrrole ring and the phenolic OH group, in this instance, is discussed in terms of the circumstances that control the manifestation of bioisofunctionality between a pyrrole ring and a phenolic OH group, which functions as a H-bond donor.

L5 ANSWER 14 OF 17 CASREACT COPYRIGHT 1994 ACS

RX(9) OF 43 ... R ===> 8

RCT R 100907-63-9 RX(9) PRO S 100907-66-2

NTE heat 205-210.degree.

AN 105:114874 CASREACT

Synthesis and heterocyclization of 1-phenyl-1-(1-alkyl-2,5-dimethyl-TI 4-piperidyl) hydrazines

211446

Vartanyan, R. S.; Martirosyan, V. O.; Kolozyan, K. R.; Vartanyan, S. ΑU

Inst. Tonkoi Org. Khim. im. Mndzhoyana, Yerevan, USSR CS

Arm. Khim. Zh. (1985), 38(5), 308-13 CODEN: AYKZAN; ISSN: 0515-9628 SO

DΤ Journal

LA Russian

GI

Nitrosation of piperidines I (R = H, R1 = Me, PhCH2) by NaNO2 in aq. AB HCl gave N-nitroso derivs. which were reduced by LiAlH4 to give 72 and 82% hydrazines I (R = NH2) which underwent a Fischer reaction with ketones to give 60-78% carbazoles and carbolines II (R1 = Me, PhCH2, X = NMe, NCH2Ph, CH2).

L5 ANSWER 15 OF 17 CASREACT COPYRIGHT 1994 ACS

RX(25) OF 65 COMPOSED OF RX(3), RX(4), RX(5)RX(25)  $\mathbf{F} ===> \mathbf{N}$ 

F 102357-87-9 RX(3) RCT I 16853-85-3 LiAlH4 RGT PRO H 102357-88-0 SOL 60-29-7 Et20 RX(4) RCT H 102357-88-0 RGT L 1313-13-9 MnO2 PRO K 102357-89-1 SOL 75-09-2 CH2Cl2 RX(5) RCT K 102357-89-1 PRO N 102357-90-4 13938-94-8 Rhodium, carbonylchlorobis(triphenylphosphine)-CAT , 6737-42-4 1,3-DPPP SOL 108-67-8 Mesitylene AN 104:224775 CASREACT Synthesis of the phosphodiesterase inhibitors PDE-I and PDE-II TI Bolton, Richard E.; Moody, Christopher J.; Rees, Charles W.; Tojo, ΑU Gabriel Dep. Chem., Imp. Coll. Sci. Technol., London, SW7 2AY, UK CS J. Chem. Soc., Chem. Commun. (1985), (24), 1775-6 SO CODEN: JCCCAT; ISSN: 0022-4936 DTJournal LA English

$$RO_2C$$
 $NR^1$ 
 $OR^2$ 
 $OR^2$ 
 $OCH_2Ph$ 
 $OCH_2Ph$ 

BERNHARDT

- AB PDE-I and -II (I; R = R2 = H, R1 = CONH2, Ac, resp.), which occur in Streptomyces MD769-C6, were prepd. from 5,4,2-RBr(MeO)C6H2OCH2Ph (II; R = CHO) in 10 steps. The key steps were the cyclization of II (R = CH:CN3CO2Me) to the indole III (R = Br, R1 = CO2Me) and of the azide III (R = CH:CN3CO2Me, R1 = H) to the pyrroloindole I (R = Me, R1 = H, R2 = CH2Ph).
- L5 ANSWER 16 OF 17 CASREACT COPYRIGHT 1994 ACS

RX(16) OF 66 ...Z ===> AC

$$CO_2H$$
 $CO_2H$ 
 $C$ 

RX(16) RCT Z 100907-61-7 PRO AC 100907-64-0

NTE decarboxylation

AN 104:129768 CASREACT

TI New 1-substituted indoles

AU Vartanyan, R. S.; Martirosyan, V. O.

CS Inst. Tonkoi Org. Khim., Yerevan, USSR

SO Arm. Khim. Zh. (1985), 38(7), 449-55

CODEN: AYKZAN; ISSN: 0515-9628

DT Journal

LA Russian

- Treating heterocycles I (R1 = Me, H; R2 = H, Me; R3 = H; X = NMe, O, S) with NaNO2 in concd. HCl gave intermediate nitroso compds. I (R3 = NO), which were reduced with LiAlH4 to give 80-84% amines I (R3 = NH2). Treating the latter with MeCOCO2Me in MeOH or with MeCOCO2H gave 71-79% hydrazones I (R = N:CMeCO2Me) and 86-90% I (R = N:CMeCO2H), resp. Cyclization of the hydrazones gave 73-79% indoles II (R4 = Me), which were sapond. to give 70-84% II (R4 = H). Decarboxylation of the latter at 205-210.degree. gave 61-78% indoles III.
- L5 ANSWER 17 OF 17 CASREACT COPYRIGHT 1994 ACS

RX(13) OF 263 BA ===> BB + BC...

- RX(13) RCT BA 1477-50-5 RGT AX 7440-50-8 Cu, AY 91-22-5 Quinoline PRO BB 52415-29-9, BC 124-38-9
- AN 103:71643 CASREACT
- TI Amino acids and peptides, XLVIII. Total synthesis and biomimetic formation of clionamide derivatives
- AU Schmidt, Ulrich; Lieberknecht, Albrecht; Griesser, Helmut; Boekens, Hilmar
- CS Inst. Org. Chem., Biochem. Isotopenforsch., Univ. Stuttgart, Stuttgart, D-7000/80, Fed. Rep. Ger.
- SO Liebigs Ann. Chem. (1985), (4), 785-93 CODEN: LACHDL; ISSN: 0170-2041
- DT Journal
- LA German

- \* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY AVAILABLE VIA OFFLINE PRINT \*
- The total synthesis of tetraacetylclionamide I from amine II and (S)-tryptophan III (Boc = Me3CO2C) is described. Thus, II was condensed with III to give amide IV (RR1 = 0), which was reduced by NaCNBH3 to give a diastereoisomeric mixt. of IV (R = H, R1 = OH), which was converted to the (E)-enamide via a selenium oxide elimination reaction. II and III were prepd. by std. methods. The biomimetic prepn. of debromoclionamide deriv. V by decarboxylation of the corresponding dehydro amino acid deriv. is described.

=> => d his

(FILE 'REGISTRY' ENTERED AT 08:48:32 ON 15 NOV 94)
DEL HIS Y

FILE 'CASREACT' ENTERED AT 09:12:15 ON 15 NOV 94

L1 STR L2 2 S L1 L3 29 S L1 FUL L4 STR L1

L5 17 SEARC SSS FUL L4 SUB=L3

FILE 'CASREACT' ENTERED AT 09:20:48 ON 15 NOV 94